

=> fil hcap

FILE 'HCAPLUS' ENTERED AT 16:57:22 ON 24 JUL 2007

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FILE COVERS 1907 - 24 Jul 2007 VOL 147 ISS 5

FILE LAST UPDATED: 23 Jul 2007 (20070723/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d que 117

L6	1	SEA FILE=REGISTRY	ABB=ON	PLU=ON	ALLYL CHLORIDE/CN
L7	1	SEA FILE=REGISTRY	ABB=ON	PLU=ON	"1,2-EPOXY-3-CHLOROPROPANE"/C N
L8	4114	SEA FILE=HCAPLUS	ABB=ON	PLU=ON	L6 (L) RACT+NT/RL
L9	2442	SEA FILE=HCAPLUS	ABB=ON	PLU=ON	L7 (L) PREP+NT/RL
L10	172	SEA FILE=HCAPLUS	ABB=ON	PLU=ON	L8 AND L9
L12	39677	SEA FILE=HCAPLUS	ABB=ON	PLU=ON	PEROXIDES+PFT,NT/CT (L) RACT+NT/ RL
L13	64	SEA FILE=HCAPLUS	ABB=ON	PLU=ON	L10 AND L12
L15	39697	SEA FILE=HCAPLUS	ABB=ON	PLU=ON	"ZEOLITES (SYNTHETIC)" +PFT,NT/ CT (L) CAT+NT/RL
L17	32	SEA FILE=HCAPLUS	ABB=ON	PLU=ON	L15 AND L13

=> d 117 ibib abs hitstr tot

L17 ANSWER 1 OF 32 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2007:81341 HCAPLUS Full-text

DOCUMENT NUMBER: 146:338204

TITLE: Highly efficient and selective production of epichlorohydrin through epoxidation of allyl chloride with hydrogen peroxide over Ti-MWW catalysts

AUTHOR(S): Wang, Lingling; Liu, Yueming; Xie, Wei; Zhang, Haijiao; Wu, Haihong; Jiang, Yongwen; He, Mingyuan; Wu, Peng

CORPORATE SOURCE: Shanghai Key Laboratory of Green Chemistry and Chemical Processes, Department of Chemistry, East China Normal University, Shanghai, 200062, Peop. Rep. China

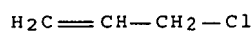
SOURCE: Journal of Catalysis (2007), 246(1), 205-214

CODEN: JCTLA5; ISSN: 0021-9517

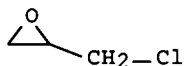
PUBLISHER: Elsevier Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English



IT 106-89-8P, Epichlorohydrin, preparation
 RL: PREP (Preparation)
 (manufacture of, by allyl chloride epoxidn., titanium-containing silicalite catalysts for)
 RN 106-89-8 HCAPLUS
 CN Oxirane, 2-(chloromethyl)- (CA INDEX NAME)



IT 7722-84-1, Hydrogen peroxide, reactions
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (olefin epoxidn. and aromatic hydrocarbon hydroxylation by, titanium-containing silicalite catalysts for)
 RN 7722-84-1 HCAPLUS
 CN Hydrogen peroxide (H2O2) (CA INDEX NAME)



=> d his

(FILE 'HOME' ENTERED AT 16:48:02 ON 24 JUL 2007)

FILE 'CAPLUS' ENTERED AT 16:48:07 ON 24 JUL 2007
 E US2005-534502/APPS

L1 1 S E3
 SEL RN

FILE 'REGISTRY' ENTERED AT 16:48:32 ON 24 JUL 2007
 L2 6 S E1-6

FILE 'CASREACT' ENTERED AT 16:49:10 ON 24 JUL 2007

L3 STR
 L4 1 S L3
 L5 35 S L3 FUL

FILE 'REGISTRY' ENTERED AT 16:52:40 ON 24 JUL 2007

L6 1 S ALLYL CHLORIDE/CN
 E 1,2-EPOXY-3-CHLOROPROPANE/CN
 L7 1 S E3

FILE 'HCAPLUS' ENTERED AT 16:53:13 ON 24 JUL 2007

L8 4114 S L6(L) RACT+NT/RL

L9 2442 S L7(L) PREP+NT/RL
 L10 172 S L8 AND L9
 E PEROXIDES/CT
 L11 189635 S PEROXIDES+PFT,NT/CT
 L12 39677 S PEROXIDES+PFT,NT/CT(L) RACT+NT/RL
 L13 64 S L10 AND L12

FILE 'CAPLUS' ENTERED AT 16:54:33 ON 24 JUL 2007

FILE 'HCAPLUS' ENTERED AT 16:54:34 ON 24 JUL 2007

L14 61 S L13 AND (CAT/RL OR CATAL?)
 E ZEOLITES/CT
 E E3+ALL
 E E2+ALL
 L15 39697 S "ZEOLITES (SYNTHETIC)"+PFT,NT/CT(L) CAT+NT/RL
 L16 1 S L15 AND L1
 L17 32 S L15 AND L13
 L18 1 S L1 AND L17

FILE 'HCAPLUS' ENTERED AT 16:57:22 ON 24 JUL 2007

=> fil casreact

FILE 'CASREACT' ENTERED AT 16:59:39 ON 24 JUL 2007

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FILE CONTENT:1840 - 21 Jul 2007 VOL 147 ISS 5

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*   CASREACT now has more than 12 million reactions
*
*****
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Some CASREACT records are derived from the ZIC/VINITI database (1974-1999) provided by InfoChem, INPI data prior to 1986, and Biotransformations database compiled under the direction of Professor Dr. Klaus Kieslich.

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=> s l5 not l17

'RL' IS NOT A VALID FIELD CODE

RELATIONSHIP 'PFT,NT' IGNORED

RELATIONSHIPS DO NOT EXIST FOR FIELD 'CT'

RELATIONSHIP 'PFT,NT' IGNORED

RELATIONSHIPS DO NOT EXIST FOR FIELD 'CT'

761 "ZEOLITES (SYNTHETIC)"+PFT,NT/CT (1 TERM)

0 CAT+NT/RL

0 "ZEOLITES (SYNTHETIC)"+PFT,NT/CT(L) CAT+NT/RL

1476 L6

0 RACT+NT/RL

0 L6(L) RACT+NT/RL

2101 L7
 0 PREP+NT/RL
 0 L7(L) PREP+NT/RL
 740 PEROXIDES+PFT,NT/CT (1 TERM)
 0 RACT+NT/RL
 0 PEROXIDES+PFT,NT/CT(L) RACT+NT/RL
 L19 35 L5 NOT L17

=> dup rem l5 l17

FILE 'CASREACT' ENTERED AT 16:59:58 ON 24 JUL 2007
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 PROCESSING COMPLETED FOR L5
 PROCESSING COMPLETED FOR L17

L20 58 DUP REM L5 L17 (9 DUPLICATES REMOVED)
 ANSWERS '1-35' FROM FILE CASREACT
 ANSWERS '36-58' FROM FILE HCAPLUS

=> dup rem l17 l5

PROCESSING COMPLETED FOR L17
 PROCESSING COMPLETED FOR L5

L21 58 DUP REM L17 L5 (9 DUPLICATES REMOVED)
 ANSWERS '1-32' FROM FILE HCAPLUS
 ANSWERS '33-58' FROM FILE CASREACT

=> d l21 ibib abs crd 33-58

L21 ANSWER 33 OF 58 CASREACT COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 146:251725 CASREACT Full-text
 TITLE: Process for preparation of (chloromethyl)oxirane by
 epoxidation
 INVENTOR(S): Xi, Zuwei; Li, Jian; Gao, Shuang
 PATENT ASSIGNEE(S): Dalian Institute of Chemical Physics, Chinese Academy
 of Sciences, Peop. Rep. China
 SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 7pp.
 CODEN: CNXXEV
 DOCUMENT TYPE: Patent
 LANGUAGE: Chinese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1900071	A	20070124	CN 2005-10012240	20050721
PRIORITY APPLN. INFO.:			CN 2005-10012240 20050721	
AB The title method includes oxidizing allyl chloride using hydrogen peroxide water solution as oxygen source and tungstophosphoric heteropolyacid salt or molybdophosphoric heteropolyacid salt as catalyst at 40-90 °C under solvent-free condition for 1-5 h to obtain the final product, wherein the catalyst/hydrogen peroxide weight ratio is 0.1-1.2, and the hydrogen peroxide/allyl chloride weight ratio is 0.02-0.2 (hydrogen peroxide concentration is calculated by 100%). This invention has the advantages of high product yield, single product, good selectivity, and no pollution on environment, and is suitable for large-scale production				